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To establish a system to promote the use of land remote-sensing satellite data, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MARCH 15, 1984

Mr. Fuqua (for himself, Mr. Winn, Mr. Scheuer, Mr. Volkmer, Mr. Lujan, Mr. McGrath, Mr. Nelson of Florida, Mr. Walker, Mr. Ralph M. Hall, Mr. Carney, Mr. Dymally, Mr. Chandler, Mr. Andrews of Texas, Mr. Bateman, Mr. MacKay, Mr. Lewis of Florida, Mr. Gregg, Mr. Skeen, Mr. Akaka, Mr. Lowery of California, Mr. Torricelli, Mr. Durbin, Mr. Sensenbrenner, and Mr. Boehlert) introduced the following bill; which was referred to the Committee on Science and Technology

A BILL

To establish a system to promote the use of land remote-sensing satellite data, and for other purposes.

1	Be it enacted by the Senate and House of Representa-
2	tives of the United States of America in Congress assembled,
3	That this Act may be cited as the "Land Remote-Sensing
4	Commercialization Act of 1984".
5	TITLE I—DECLARATION OF FINDINGS,
6	PURPOSES, AND POLICIES
7	FINDINGS
8	SEC. 101. The Congress finds and declares that-

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1	(1) the continuous civilian collection and utiliza-
2	tion of land remote-sensing data from space is of major
3	benefit in managing the Earth's natural resources and
4	in planning or conducting many other activities of eco-
5	nomic importance;
6	(2) the national interest of the United States lies
7	in maintaining international leadership in civil remote-
8	sensing and in broadly promoting the beneficial use of
9	remote-sensing data;
10	(3) land remote-sensing by the Government or pri-
11	vate parties of the United States affects international
12	commitments and policies and national security con-
13	cerns of the United States;
14	(4) the broadest and most beneficial use of land
15	remote-sensing data is likely to result from maintaining
16	a policy of nondiscriminatory access to data;
17	(5) use of land remote-sensing data has been in-
18	hibited by slow market development and by the lack of
19	assurance of data continuity;
20	(6) the private sector, and in particular the
21	"value-added" industry, is best suited to develop land
22	remote-sensing data markets;
23	(7) vigorous, competitive, market-driven private
4	sector involvement in land remote-sensing can lead to

1	rapid realization of the potential benefits of that tech-
2	nology;
3	(8) to utilize fully the strengths of the private
4	sector, any process of commercialization of land
5	remote-sensing should involve the maximum practica-
6	ble competition and the minimum (both in duration and
7	amount) practicable Government subsidy;
8	(9) at the present time, it is unclear that the pri-
9	vate sector alone will develop a total land remote-sens-
10	ing system because of the high risk and large capital
11	expenditures involved;
12	(10) cooperation between the Federal Government
13	and the private sector can help assure both data con-
14	tinuity and United States leadership;
15	(11) the time is now appropriate to initiate such
16	cooperation with phased transition to a fully commer-
17	cial system;
18	(12) cooperation between Government and the
19	private sector in civil land remote-sensing should be
20	structured so as to minimize Government direction and
21	regulation and maximize private sector involvement;
22	(13) nevertheless, certain Government oversight
23	must be maintained to assure that private sector activi-
24	ties are in the national interest and that the interna-

1	tional commitments and policies of the United States
2	are honored; and
3	(14) there is no compelling reason to commercial-
4	ize meteorological satellites at this time.
5	PURPOSES
6	SEC. 102. It is therefore the purpose of this Act—
7	(1) to guide the United States Government in pro-
8	moting full, prompt, and proper involvement of the pri-
9	vate sector in civil land remote-sensing from space;
10	(2) to maintain the United States leading position
11	in civil remote-sensing, preserve its national security,
12	and fulfill its international obligations;
13	(3) to prescribe conditions for assuring continuity
14	of civil land remote-sensing data while protecting
15	public and private nondiscriminatory access to these
16	data;
17	(4) to minimize the duration and amount of any
18	further Federal investment that might be necessary to
19	achieve full commercialization of civil land remote-
20	sensing; and
21	(5) to prohibit commercialization of meteorological
22	satellites at this time.

1	POLICIES
2	SEC. 103. (a) It shall be the policy of the United States
3	to preserve its right to acquire and disseminate digital
4	remote-sensing data.
5	(b) It shall be the policy of the United States that civil-
6	ian digital remote-sensing data be made available to all po-
7	tential users on a nondiscriminatory basis.
8	(c) It shall be the policy of the United States both to
9	commercialize those space remote-sensing functions that
10	properly lend themselves to private sector operation and to
11	avoid competition by the Government with such commercial
12	operations, while continuing to preserve our national secu-
13	rity, to honor our international obligations, and to retain in
14	the Government those remote-sensing functions that are es-
15	sentially of a public service nature.
16	DEFINITIONS
17	SEC. 104. For purposes of this Act:
18	(1) The term "digital remote-sensing data" means
19	the unprocessed and minimally processed signals col-
20	lected from civil remote-sensing space systems or origi-
21	nal film products collected from such systems. Such
22	minimal processing shall be limited to rectification of
23	instrumental distortions, registration with respect to
24	features on the Earth, and calibration of spectral re-
25	sponse. Such term does not include conclusions, manip-

ulations, or calculations derived from such signals or combination of the signals with other data or information. Unless otherwise limited, digital remote-sensing data includes land and ocean sensed data.

- (2) The term "Secretary" means the Secretary of Commerce.
- (3)(A) The term "on a nondiscriminatory basis" means without preference, bias, or any other special arrangement regarding delivery, format, financing, or technical considerations which would favor one buyer or class of buyers over another.
- (B) The sale of data is made on a nondiscriminatory basis only if (i) any offer to sell or deliver data is published in advance in such manner as will ensure that the offer is equally available to all prospective buyers; (ii) the system operator has not established or changed any price, policy, procedure, or other term or condition in a manner which gives one buyer or class of buyer de facto favored access to data; and (iii) in a case where a system operator offers volume discounts, such discounts are no greater than the demonstrable reductions in the cost of such sales. The sale of data on a nondiscriminatory basis does not preclude the system operator offering discounts other than volume

1	discounts to the extent that such discounts are not in-
2	consistent with any other provision of this paragraph.
3	(C) The sale of data on a nondiscriminatory basis
4	does not require (i) that a system operator disclose
5	names of buyers or their purchases; (ii) that a system
6	operator maintain all, or any particular subset of, data
7	in a working inventory; or (iii) that a system operator
8	expend equal effort in developing all segments of a
9	market.
0	(4) The term "Landsat system" means Landsat 1,
1	2, 3, 4, and 5, and related ground equipment, systems,
12	and facilities, and any successor civil land remote-sens-
13	ing satellites operated by the United States Govern-
14	ment prior to the commencement of the six-year period
15	described in section 302(b)(2).
16	(5) The term "system operator" means a contrac-
17	tor under title Π or a license holder under title IV .
18	TITLE II—CONTRACT FOR EXISTING LAND
19	REMOTE-SENSING SATELLITE SYSTEM
20	CONTRACT REQUIREMENTS
21	SEC. 201. (a) In accordance with the requirements of
22	this Act, the Secretary shall, subject to the availability of
23	appropriations therefor, contract with a United States private
24	sector party (as defined by the Secretary) to market digital
25	remote-sensing data generated by the Landsat system. If the

Secretary determines that competition for such contract will
promote the policies and purposes of this Act, the Secretary
may accept proposals for such contract which include the op-
eration by such United States private sector party of (1) the
space component of the Landsat system, (2) the related
ground equipment, systems, and facilities, or (3) both such
space component and such related equipment, systems, and
facilities.
(b) A contract awarded under subsection (a) shall be
awarded, after competition, in accordance with the conditions
of section 203. Such contract may be reawarded competi-
tively after the practical demise of the space segment of the
Landsat system, as determined by the Secretary.
(c) Any contract authorized by subsection (a)—
(1) shall not permit the transfer to any contractor
of title to any part or all of the Landsat system; and
(2) may specify that the contractor use, and, at
his own expense, maintain, repair, or modify elements
of the Landsat system as the contractor finds necessary
for commercial operations.
(d) If, as a result of the competitive process required by
subsection (b), the Secretary receives no proposal which he
3 finds acceptable under the conditions of this Act, the Secre
4 tary shall so certify and fully report his findings to the Con
5 gress. Thirty days after so certifying and reporting, the Sec

- 1 retary may reopen the competition. If no acceptable propos-
- 2 als are received after such subsequent competition, or if the
- 3 Secretary decides not to reopen the competition, the Secre-
- 4 tary shall so certify and fully report his findings to the Con-
- 5 gress. In the event that no acceptable proposal is received,
- 6 the Secretary shall continue to operate the Landsat system
- 7 and to market data from such system.
- 8 (e) In defining "United States private sector party" for
- 9 purposes of subsection (a), the Secretary may take into ac-
- 10 count the citizenship of key personnel, location of assets, for-
- 11 eign ownership, control, and influence, and other such
- 12 factors.
- 13 SALE OF DATA
- 14 Sec. 202. (a) The United States Government shall
- 15 retain title to any and all data generated by the Landsat
- 16 system. However, after the date of the commencement of the
- 17 contract described in section 201(a), the contractor shall be
- 18 entitled to revenues from sales of copies of data from the
- 19 Landsat system, subject to the conditions specified in sections
- 20 601 and 602 of this Act.
- 21 (b) The contractor may continue to market data previ-
- 22 ously generated by the Landsat system after the demise of
- 23 the space segment of that system.

1	CONDITIONS OF COMPETITION FOR CONTRACT
2	SEC. 203. (a) The Secretary of Commerce shall, as part
3	of his advertisement for the competition for the contract au-
4	thorized by section 201, identify and publish the international
5	obligations, national security concerns (with appropriate pro-
6	tection of sensitive information), domestic legal consider-
7	ations, and any other standards or conditions which a private
8	contractor shall be required to meet.
9	(b) In selecting a contractor under this title, the Secre-
10	tary shall consider—
11	(1) ability to market aggressively digital remote-
12	sensing data;
13	(2) the best overall financial return to the Govern-
14	ment, including the potential savings to the Govern-
15	ment;
16	(3) ability to meet the obligations, concerns,
17	standards, and conditions identified under subsection
18	(a);
19	(4) technical competence, including the ability to
20	assure continuity and timeliness of data from the Land-
21	sat system;
22	(5) absence of any conflicts of interest which could
23	inhibit nondiscriminatory access to such data;
24	(6) ability to effect a smooth transition with the
25	contractor selected under title III of this Act; and

1	(1) such other factors as he deems appropriate.
2	FOREIGN GROUND STATIONS
3	SEC. 204. (a) The contract under this title shall provide
4	that the contractor shall act as the agent of the Secretary by
5	continuing to supply digital remote-sensing data to foreign
6	ground stations for the life, and according to their terms, of
7	those agreements between the United States Government
8	and such foreign ground stations that are in force on the date
9	of the commencement of the contract.
10	(b) Upon the expiration of such agreements, or in the
11	case of foreign ground stations that have no agreement with
12	the United States on the date of commencement of the con-
13	tract, the contract shall provide—
14	(1) that digital remote-sensing data from the
15	Landsat system shall be made available to foreign
16	ground stations only by the contractor; and
17	(2) that such data shall be made available on a
18.	nondiscriminatory basis.
19	TITLE III—PROVISION OF DATA CONTINUITY
20	DURING TRANSITION PERIOD
21	PURPOSES AND DEFINITIONS
22	SEC. 301. (a) It is the purpose of this title—
23	(1) to provide, in an orderly manner and with
24	minimal risk, for a transition between Government op-

1	eration and private, commercial operation of civil land
2	remote-sensing space systems; and
3	(2) to provide for the continuity of MSS data for
4	six years after the practical demise of the space seg
5	ment of the Landsat system.
6	(b) For purposes of this title—
7	(1) the term "Multi-Spectral Scanner" means the
8	instrument referred to by that name and carried on th
9	Landsat 4 and Landsat 5 satellites; and
10	(2) the term "MSS data" means digital remote
11	sensing data which, from the point of view of a dat
12	user, are—
13	(A) functionally equivalent to data from the
14	Multi-Spectral Scanner; and
15	(B) compatible with data and with equipment
16	used to receive and process data from suc
17	Scanner.
18	CONTRACT FOR DATA AVAILABILITY AND CONTINUITY
19	SEC. 302. (a) Subject to the availability of appropriate
20	ations therefor and to the licensing conditions established
21	under title IV, the Secretary shall, after competition, co
22	tract with a United States private sector party (as defined
23	the Secretary pursuant to section 201) for the provision
24	such party of the capability of generating data of a quality
25	least equal to the quality of MSS data and of selling a

1	delivering such data to the Federal Government. The capa-
2	bility shall include, at a minimum, the capability to generate
3	and deliver MSS data at the annual volume of Federal usage
4	during fiscal year 1983, as determined by the Secretary. The
5	capability may be provided by the contractor using whatever
6	technologies the contractor may select. In addition, the con-
7	tractor may make available data of a higher quality or of a
8	different type than MSS data.
9	(b) The contract authorized by subsection (a)—
10	(1) shall be entered into as soon as practicable, al-
11	lowing for the competitive procurement process;
12	(2) shall, in accordance with criteria determined
13	and published by the Secretary, reasonably assure the
14	provision of the capability described in subsection (a)
15	for a period of six years, beginning as soon as practica-
16	ble in order to minimize any interruption of data
17	availability;
18	(3) shall terminate one year after the expiration of
19	the six-year period described in paragraph (2);
20	(4) may, subject to section 305 of the Federal
21	Property and Administrative Services Act of 1949 (41
22	U.S.C. 255), provide for a payment by the Secretary
23	to cover a portion of the capital cost of providing such
24	capability, which may be paid in installments (A) based

on progress prior to the beginning of the six-year

1	period described in paragraph (2), and (B) the sum c
2	which shall be less than the total cost of procuring th
3	system required to assure the capability for six years
4	(5) shall provide that sale of digital remote-sens
5	ing data shall be in accordance with the provisions c
6	section 303 of this title;
7	(6) shall not provide for any guaranteed data pur
8	chases by the Federal Government; and
9	(7) may provide that the contractor utilize, on
10	space-available basis, civilian Government satellites a
11	platforms for a civil remote-sensing satellite system
12	if—
13	(A) the contractor immediately reimburs
14	the Government for all related costs incurred wi
15	respect to such utilization, including a reasonab
16	and proportionate share of fixed, spacecraft, da
17	transmission, and launch costs; and
18	(B) such utilization would not interfere wi
19	or otherwise in any way compromise the intend
20	civilian Government missions, as determined
21	the agency responsible for the civilian satellite.
22	(c) The contract authorized by subsection (a) shall
23	awarded on the basis of—
24	(1) the cost to the Government of the payment
25	under subsection (b)(4);

1	(2) the reliability, technical competence, and fi-
2	nancial condition of the contractor;
3	(3) the contractor's ability to develop the remote-
4	sensing data market;
5	(4) the contractor's ability to supplement basic ca-
6	pabilities specified in section 302(a) by adding remote-
7	sensing capabilities (at the contractor's expense and
8	consistent with national security concerns) which main-
9	tain United States leadership in remote-sensing;
10	(5) the contractor's ability to meet the conditions
11	for obtaining a license under title IV;
12	(6) the contractor's ability to provide digital
13	remote-sensing data on a timely and reliable basis;
14	(7) the contractor's ability to effect a smooth tran-
15	sition with any contractor selected under title II;
16	(8) the royalty or profit- or revenue-sharing ar-
17	rangement, or other such financial consideration offered
18	to the Federal Government; and
19	(9) such other factors as the Secretary deems ap-
20	propriate.
21	(d) If, as a result of the competitive process required by
22	subsection (a), the Secretary receives no proposal which he
23	finds acceptable under the conditions of this Act, the Secre-
24	tary shall so certify and fully report his findings to the Con-
25	gress. Thirty days after so certifying and reporting, the Sec-

- 1 retary may reopen the competition. If no acceptable propos-
- 2 als are received after such subsequent competition, or if the
- 3 Secretary decides not to reopen the competition, the Secre-
- 4 tary shall so certify and fully report his findings to the Con-
- 5 gress. Ninety days after so certifying and reporting, the Sec-
- 6 retary is authorized to assure MSS data continuity by pro-
- 7 curement and operation by the Federal Government of the
- 8 necessary systems, subject to the availability of appropri-
- 9 ations therefor. Such procurement and operation may include
- 10 generation of data of a higher quality than MSS data.

11 SALE OF DATA

- 12 SEC. 303. (a) The contractor selected under section 302
- 13 shall sell data in accordance with the provisions of sections
- 14 601 and 602 of this Act.
- 15 (b) Any sale of digital remote-sensing data by the con-
- 16 tractor to Federal agencies shall be on a nondiscriminatory
- 17 basis, with the additional condition that at least 5 per centum
- 18 of the price of each such sale shall be rebated to the Govern-
- 19 ment (and thereby reduce the total net cost to the Govern-
- 20 ment) as a royalty payment to the United States Treasury.
- 21 Such royalty payments shall be required during the life of the
- 22 contract authorized in section 302, or until such time as the
- 23 cumulative total of such royalty payments equals the value of
- 24 any payment made to the contractor by the Government